Attorney Docket No.: <u>CXU-339</u>



COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

(includes reference to PCT International Applications)

#4

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DESIGNS FOR WIDE BAND ANTENNAS WITH PARASITIC ELEMENTS AND A METHOD TO OPTIMIZE THEIR DESIGN USING A GENETIC ALGORITHM AND FAST INTEGRAL EQUATION TECHNIQUE

the specification of which

()	is attached hereto.	
(x)	was filed on June 28, 2001	as
•	Application Serial No. 09/894,870	,
	and was amended on	•
	(if applicable)	
()	was filed as PCT International Application No.	on
()	and was amended under I	PCT Article 19 on
	<u> </u>	
	(if applicable)	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to me to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International Application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT International Application(s) designating at least one country other than the United States of America having a filing date before that of the application on which priority is claimed:

Page 1 of 3

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Prior Foreign/PC7 (if PCT, indicate	• • • •	•		Priority Claimed
Number	Country		Day/Month/Year Filed	() () Yes No
Number	Country		Day/Month/Year Filed	() () Yes No
United States app America listed be not disclosed in states 35, United States me to be material 1.56, which becar	lication(s) or F low and, insof uch prior appli Code Section to patentabilit ne available be	PCT International Apar as the subject mat cation(s) in the manal 112, I acknowledge y as defined in Title	tes Code Section 120 and oplication(s) designating the ter of each of the claims of the provided by the first perfect the duty to disclose all infections and the prior application(section).	he United States of of this application is aragraph of Title formation known to alation, Section
Application Seria or PCT Application (and any assigned	on No.	U.S. or PCT Filing Date	Status – - I Pending, o	Patented or Abandoned
	prosecute this	application and trar	I hereby appoint the follousact all business in the Pa	
Wellington M. M. Julian W. Dority James M. Bagara: Richard M. Moos Stephen E. Bondu Timothy A. Cassi Jeffrey M. Karmi Frances Barnes E. J. Bennett Mullin John E. Vick, Jr. Jason W. Johnsto Tim F. Williams Charles R. Ducke Neal P. Pierotti Bernard S. Kloso Timothy D. St. C.	anning, Jr. zzi e nra dy lovich lliott ax n .r, Jr.		Registration Regis	on No. 22,376 on No. 20,268 on No. 29,609 on No. 31,226 on No. 35,070 on No. 38,024 on No. 35,915 on No. 41,598 on No. 36,221 on No. 33,808 on No. 45,675 on No. 47,178 on No. 46,542 on No. 46,542 on No. 47,710 on No. 48,316

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Telephone: 864-271-1592 Facsimile: 864-233-7342

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	CHALMERS M. BUTLER	
	(Full name of sole or first inventor)	
Inventor's Signature:		
mivemor o orginature.		- Date
Residence:	Clemson, South Carolina	Duic
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	200 Kings Way, Clemson, SC 29631	
	SHAWN D. ROGERS	
	(Full name of sole or second joint inventor, if any)	
Second Inventor's Sig	gnature: Shawn D. Roger	9/18/01
		Date
Residence:	Laurel, Maryland	
Citizenship:	United States	
Post Office Address:	3407 Holly Creek Drive, Apartment 1C, Laurel, M	ID 20724
	(Full name of sole or third joint inventor, if any)	
Third Inventor's Sign	ature:	
		Date
Residence:		
Citizensnip:		
Post Office Address:		
NOTE: For Addition signature and date for	al Inventors, check and attach sheet with each.	same information and

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ATTENDED EQUATION TECHNIQUE	

the sp	ecific	ation	of	wh	ich
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()	is attached hereto.	
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AUG 0 7 2002

Prior Foreign/PCT Application(s) (if PCT, indicate "PCT" under Country)					<u>Priority</u>	Claimed
Number	Country		Day/Month/Y	ear Filed	() Yes	() No
Number	Country	·	Day/Month/Y	ear Filed	() Yės	() No
I hereby claim the be United States applica America listed below not disclosed in such 35, United States Co me to be material to 1.56, which became or PCT international	ation(s) or PCT and, insofar a prior application 112 patentability as available betweentable and person 112 patentability as available betweentable	International As the subject mon(s) in the mas, I acknowledged defined in Tireen the filing d	Application(s) de atter of each of to the duty to distille 37, Code of Fate of the prior a	esignating the the claims of y the first par close all info	e United States application of the states application of the states are seen as the states	States of ication in Title chown to
Application Serial N or PCT Application I (and any assigned US	No.	U.S. or PCT Filing Date		Status – - Pa Pending, or		<u>ied</u>
						
POWER OF ATTO and/or agent(s) to pro Trademark Office co	osecute this app	plication and tr	r, I hereby appo ansact all busine	int the followers in the Pate	ving attor ent and	ney(s)
Wellington M. Mann Julian W. Dority James M. Bagarazzi Richard M. Moose Stephen E. Bondura Timothy A. Cassidy Jeffrey M. Karmilov Frances Barnes Ellio J. Bennett Mullinax John E. Vick, Jr. Jason W. Johnston Tim F. Williams Charles R. Ducker, J Neal P. Pierotti Bernard S. Klosowsk Timothy D. St. Clair	ich tt r. ci, Jr.			Registration Registration	n No. 20,7 n No. 29,6 n No. 35,6 n No. 35,6 n No. 35,6 n No. 41,7 n No. 45,6 n No. 45,6	268 609 226 070 024 915 598 221 808 675 178 542 716

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CHALMERS M. BUTLER	
(Full name of sole or first invented	
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	Date
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Citizenship: United States	
Post Office Address: 200 Kings Way, Clemson, SC 29631	
SHAWN D. ROGERS	
(Full name of sole or second joint inventor	or if any)
Second Inventor's Signature: Shaun D. Rogen	9/18/01
	Date
Residence: Laurel, Maryland Citizenship: United States	
Citizenship: United States	
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(Full name of sole or third joint inventor	; if any)
Third Inventor's Signature:	
Residence:	Date
Residence:	
Citizenship:Post Office Address:	
NOTE: For Additional Inventors, check and attach s	heet with same information and
signature and date for each.	RECEIVE
	ILOLIVE